

AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions and listings of claims in the application:

LISTING OF CLAIMS:

1. (currently amended): A device for selecting a coding mode for a video encoding system, comprising:

a first memory for storing a present frame ~~[[data]]~~ of an input image;

a second memory for storing ~~[[the]]~~ a previous frame ~~[[data]]~~;

a motion prediction part for comparing frame data of the present ~~input frame~~ ~~[[data]]~~ stored in the first memory with frame data of the previous frame ~~[[data]]~~ stored in the second memory to detect a SAD (sum of absolute pixel differences) value; and

an SAD examiner for generating coding selection information for coding the entire present frame ~~[[data]]~~ in an intra-coding mode when the SAD value ~~of the input frame data~~ output from the motion prediction part exceeds a predetermined SAD threshold, or in an inter-coding mode when the SAD value ~~of the input frame data~~ does not exceed the predetermined SAD threshold.

2. (currently amended): A coding mode selecting method in which an SAD value between input frames is used in a video encoding system, the coding mode selecting method comprising the steps of:

detecting the SAD value of frame data of an input frame ~~[[data]]~~;

determining whether the detected SAD value exceeds a predetermined SAD threshold;

coding the entire input frame in an intra-coding mode when the SAD value of the frame data of the input frame exceeds the SAD threshold; and

coding the entire input frame in an inter-coding mode when the SAD value of the frame data of the input frame does not exceed the SAD threshold.

3. (currently amended): A device for selecting a coding mode for a video encoding system, comprising:

a motion prediction part for comparing data of a present input frame with data of a previous frame to detect a SAD (sum of absolute pixel differences) value; and

an SAD examiner for generating coding selection information for coding the entire present input frame ~~[[data]]~~ in an intra-coding mode when the SAD value ~~of the input frame data~~ output from the motion prediction part exceeds a predetermined SAD threshold, or in an inter-coding mode when the SAD value ~~of the input frame data~~ does not exceed the predetermined SAD threshold.

4. (currently amended): The device as claimed in claim 1, wherein the SAD examiner receives a plurality of SAD values of the present ~~input~~ frame ~~[[data]]~~ and the SAD examiner generates the coding selection information after the plurality of SAD values of the present ~~input~~ frame ~~[[data]]~~ are received.

5. (currently amended): The device as claimed in claim 4, wherein each of the plurality of SAD values of the present ~~input~~ frame ~~[[data]]~~ are compared with the predetermined SAD

threshold to code the ~~input~~entire present frame [[data]] in one of the intra-coding mode and the inter-coding mode.

6. (currently amended): The coding mode selecting method as claimed in claim 2, wherein the step of detecting comprises detecting a plurality of SAD values of the input frame [[data]] and receiving the plurality of SAD values of the input frame [[data]] and the step of determining whether the detected SAD value exceeds the SAD threshold is carried out after receiving the plurality of SAD values.

7. (currently amended): The device as claimed in claim 3, wherein the SAD examiner receives a plurality of SAD values of the present input frame [[data]] and the SAD examiner generates the coding selection information after the plurality of SAD values of the present input frame [[data]] are received.